General Information

Gene: Janus kinase 2
Official Symbol: JAK2
Synonym: JTK10; THCYT3
Source: Human
cDNA Size: 4128bp (cDNA Size= Gene + linker +Tags)
RefSeq: NM_004972.3
Plasmid: pCMV3-JAK2-GFPSpark

Description
Lot: Please refer to the label on the tube

Sequence Description:
Identical with the Gene Bank Ref. ID sequence except for the point mutations: 489C/T, 2490G/A not causing the amino acid variation.

Restriction site:
Kpnl(Three) + Ncol(6kb+2.16kb+1.92kb+0.064kb)

Vector:
pCMV3-C-GFPSpark

Quality control:
The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

Sequencing primer list:
pCMV3-F: 5’ CAGGTGTTCCACTCCCAGGTCAAG 3’
pcDNA3-R: 5’ GGCAACTAGAAGGCCACAGTCGAGG 3’

Or

Forward T7: 5’ TAATACGACTCTATAGGG 3’
ReverseBGH: 5’ TGAAGGCACAGTCGAGG 3’

The plasmid is ready for:
• Restriction enzyme digestion
• PCR amplification
• E. coli transformation
• DNA sequencing

E.coli strains for transformation (recommended but not limited)
Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5α and TOP10F’.

Shipping carrier:
Each tube contains approximately 10 μg of lyophilized plasmid.

Storage:
The lyophilized plasmid can be stored at ambient temperature for three months.

Conclusion:
Human JAK2 Gene ORF cDNA clone expression plasmid, C-GFPSpark tag
Catalog Number: HG11198-ACG

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.
For U.S. Customer: Fax: 267-657-0217 Tel: 215-583-7898
Non-U.S. Customer: Fax: +86-10-5862-8288 Tel: +86-400-890-9989 http://www.sinobiological.com
**Human JAK2 Gene ORF cDNA clone expression plasmid, C-GFPSpark tag**

**Catalog Number:** HG11198-ACG

---

**Vector Information**

All of the pCMV vectors are designed for high-level stable and transient expression in mammalian hosts. High-level stable and non-replicative transient expression can be carried out in most mammalian cells. The vectors contain the following elements:

- Human enhanced cytomegalovirus immediate-early (CMV) promoter for high-level expression in a wide range of mammalian cells.
- Hygromycin resistance gene for selection of mammalian cell lines.
- A Kozak consensus sequence to enhance mammalian expression.

**Physical Map of Plasmid:**

![Physical Map of Plasmid](image)

<table>
<thead>
<tr>
<th>Vector Name</th>
<th>pCMV3-C-GFPSpark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vector Size</td>
<td>6848 bp</td>
</tr>
<tr>
<td>Vector Type</td>
<td>Mammalian Expression Vector</td>
</tr>
<tr>
<td>Expression Method</td>
<td>Constitutive, Stable / Transient</td>
</tr>
<tr>
<td>Promoter</td>
<td>CMV</td>
</tr>
<tr>
<td>Bacterial Resistance</td>
<td>Kanamycin</td>
</tr>
<tr>
<td>Selection In Cells</td>
<td>Hygromycin</td>
</tr>
<tr>
<td>Protein tag</td>
<td>GFPSpark</td>
</tr>
</tbody>
</table>